

ITLE APPL Trial 81 Determine Dye and H₂O₂

From Page No. _____ Levels to Achieve Target L and b Values

EXHIBIT A

APPL Trial T-81

Project Manager: Scotti Stephens (NGCF - New Generation Curly Fibers)
 Project Number: 00050 W532 615 874 731 142-4513

Objectives:

- Attempt to overcome dye-caused L loss by post-treatment with alkaline hydrogen peroxide.
- Determine combinations of low dye levels and peroxide that will simultaneously achieve target L and b values.
- Produce samples for customer evaluation

Safety:

- Review MSDS's for all chemicals.
- Use proper personnel protective gear when handling the 50% hydrogen peroxide solution - goggles, face shield and rubber gloves. Other staff are to remain clear of this working area.
- Handle post-treatment solutions with care - prior to hydrogen peroxide addition, pH will be greater than 11.
- Use normal safety precautions related to working around the APPL area during its operation.

Run Conditions:

Pulp	CF416
Pulp Linear Feed rate	60 fpm
Cross-linking Chemistry	CS-10
Impregnation Solution	See Run Matrices
Impregnation Solution pH	Adjust to pH between 2-2.1
Target Hammermill Feed Consistency	61%
Target Citric Acid on BDCF Pulp	7.616%
Target SHP (SHP.H ₂ O Basis) on BDCF Pulp	0.683 %
Dye Types Evaluated	Pergasol Blue PTD Pergasol Blue NLF See Run Matrix
Dye Addition Rate	44.7 % of scale
Impregnation Solution Rotameter Setting	360 °F
Nominal Cure Temperature	5 minutes
Nominal Cure Time	8-9%
Target Product Moisture	See Run Matrix
Remoisturization Solutions	60% of scale reading (Water Pressure - 20 psi with air pressure adjusted to achieve this setting, approximately 27-28 psi.)
Remoisturization Rotameter Setting	

Samples:

Pulp Feed Rolls: 2 samples per roll
 Hammermill Feed: 3 samples per run condition
 Baler Feed: 5 samples at steady state operation at least 2 minutes apart for each condition

In addition to the material bagged for analysis, collect and bag at least 1 kg of material at each condition for possible use as customer samples. Place samples in a black plastic bags for storage.

Sample Analyses:

Pulp Feed Rolls: Moisture
 Hammermill Feed: Moisture
 Baler Feed: Moisture, Brightness, Hunter and CIE Color (0 & 14 days), 5K and odor

- Baler Feed 5K, brightness and color samples will be placed in 13" x 18" bags. (These sample bags must not be exposed to light for any long term duration. Place all sample bags in a black plastic bag and store in the black plastic bag.)
- Pulp Feed Rolls, Hammermill Feed and Baler Feed moisture samples will be placed in 9x12 inch sample bags. Baler Feed moisture samples will also be used for odor determination.

Planning Summary T-081

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EXHIBIT B

Run ID	Impregnation Solution		Post-Treatment Targets		Post-Treatment Recipes	
	Dye Type	Dye Loading oz./ADMT	NaOH	Hydrogen Peroxide lbs./ADMT	Solution Recipes (per 22.7 lbs. of DI Water)	
			lbs./ADMT	lbs./ADMT	lbs. NaOH	mls H ₂ O ₂
A (Control)	No dye	0	0	0	0.000	0.0
B (Control)	No dye	0	2	1	0.362	138.1
C (Control)	No dye	0	2	2	0.364	278.3
D (Control)	No dye	0	2	5	0.373	713.0
E	Blue PTD	1	0	0	0.350	0.0
F	Blue PTD	1	2	1	0.362	138.1
G	Blue PTD	1	2	2	0.364	278.3
H	Blue PTD	1	2	5	0.373	713.0
I	Blue PTD	2	0	0	0.000	0.0
J	Blue PTD	2	2	1	0.362	138.1
K	Blue PTD	2	2	2	0.364	278.3
L	Blue PTD	2	2	5	0.373	713.0
M (Control)	No dye	0	0	0	0.000	0.0
N (Control)	No dye	0	2	1	0.362	138.1
O (Control)	No dye	0	2	2	0.364	278.3
P (Control)	No dye	0	2	5	0.373	713.0
Q	Blue NLF	1	0	0	0.350	0.0
R	Blue NLF	1	2	1	0.362	138.1
S	Blue NLF	1	2	2	0.364	278.3
T	Blue NLF	1	2	5	0.373	713.0
U	Blue NLF	2	0	0	0.000	0.0
V	Blue NLF	2	2	1	0.362	138.1
W	Blue NLF	2	2	2	0.364	278.3
X	Blue NLF	2	2	5	0.373	713.0

NOTES:

1. DI water is to be used for post-treatment solution make-up
2. Add the peroxide to the water just prior to dumping into the remoisturization tank to keep the peroxide as active as possible.

Impregnation Solution Recipes			
Dye Addition Rate	0	1	
Solution Make-up Contingency Factor	52.0	52.6	52.6
Target Solution Component Weight in Pounds (Dye in grams)			
Citric Acid (as-received), lbs.	40.30	40.30	40.30
SHP (as-received), lbs.	3.61	3.61	3.61
Caustic (as-received), lbs.	0.96	0.96	0.96
Dye (Neat), grams	0.000	8.218	16.436
Water, lbs.	333.20	333.20	333.20
Total, lbs.	378.07	378.07	378.07
Volume of Water, gallons	40.0	40.0	40.0
Impregnation Solution Specific Gravity	1.05	1.05	1.05
Volume of Impregnation Solution, gallons	43.2	43.2	43.2

pH adjust all Cross-linking chemical solutions to 2-2.1

Discharge no chemical solutions until pH is adjusted to between 5 and 9. Record approximate quantity discharged and measured pH in the APPL Daily Log Book.

Planning Summary T-081

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APPL Trial 81 (contd.)

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EXHIBIT C

Test Results

Absorbent Products Pilot Line - Trial # 81

1	A-1	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.30	93.30	0.134
2	A-2	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.30	93.03	0.152
3	A-3	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.30	92.73	0.169
4	A-4	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.30	92.63	0.139
5	A-5	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.23	93.73	0.149
6	B-1	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.23	93.63	0.161
7	B-2	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.23	93.50	0.168
8	B-3	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.23	93.53	0.161
9	B-4	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.23	94.30	0.149
10	B-5	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.55	60.23	94.30	0.149
11	C-1	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.06	93.10	0.154
12	C-2	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.06	91.73	0.152
13	C-3	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.06	93.53	0.142
14	C-4	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.06	90.67	0.152
15	C-5	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.06	95.10	0.158
16	D-1	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.06	92.40	0.180
17	D-2	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.06	90.10	0.148
18	D-3	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.05	93.57	0.141
19	D-4	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.05	93.20	0.153
20	D-5	7.816	0.683	44.7	None	0.0	0.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.05	93.87	0.150
21	E-1	7.816	0.683	44.7	Blue PTD	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.87	93.57	0.136
22	E-2	7.816	0.683	44.7	Blue PTD	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.87	94.37	0.132
23	E-3	7.816	0.683	44.7	Blue PTD	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.87	94.20	0.157
24	E-4	7.816	0.683	44.7	Blue PTD	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.87	94.87	0.130
25	E-5	7.816	0.683	44.7	Blue PTD	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.34	60.87	95.07	0.137
26	F-1	7.816	0.683	44.7	Blue PTD	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.41	91.57	0.137
27	F-2	7.816	0.683	44.7	Blue PTD	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.41	94.10	0.128
28	F-3	7.816	0.683	44.7	Blue PTD	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.41	94.00	0.128
29	F-4	7.816	0.683	44.7	Blue PTD	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.41	96.00	0.157
30	F-5	7.816	0.683	44.7	Blue PTD	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.41	93.83	0.148
31	G-1	7.816	0.683	44.7	Blue PTD	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.82	91.30	0.152
32	G-2	7.816	0.683	44.7	Blue PTD	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.82	91.83	0.180
33	G-3	7.816	0.683	44.7	Blue PTD	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.82	91.90	0.154
34	G-4	7.816	0.683	44.7	Blue PTD	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.82	90.47	0.176
35	G-5	7.816	0.683	44.7	Blue PTD	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.82	92.77	0.150
36	H-1	7.816	0.683	44.7	Blue PTD	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.87	94.23	0.185
37	H-2	7.816	0.683	44.7	Blue PTD	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.87	90.63	0.161
38	H-3	7.816	0.683	44.7	Blue PTD	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.87	90.33	0.168
39	H-4	7.816	0.683	44.7	Blue PTD	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.87	91.07	0.156
40	H-5	7.816	0.683	44.7	Blue PTD	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.70	60.87	91.87	0.170
41	I-1	7.816	0.683	44.7	Blue PTD	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.56	93.50	0.207
42	I-2	7.816	0.683	44.7	Blue PTD	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.56	92.33	0.158
43	I-3	7.816	0.683	44.7	Blue PTD	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.56	94.47	0.158
44	I-4	7.816	0.683	44.7	Blue PTD	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.56	94.17	0.147
45	I-5	7.816	0.683	44.7	Blue PTD	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.56	94.13	0.151
46	J-1	7.816	0.683	44.7	Blue PTD	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.24	92.40	0.148
47	J-2	7.816	0.683	44.7	Blue PTD	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.24	94.00	0.143
48	J-3	7.816	0.683	44.7	Blue PTD	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.24	94.93	0.137
49	J-4	7.816	0.683	44.7	Blue PTD	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.24	95.30	0.142
50	J-5	7.816	0.683	44.7	Blue PTD	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.24	94.03	0.124
51	K-1	7.816	0.683	44.7	Blue PTD	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.41	92.63	0.134
52	K-2	7.816	0.683	44.7	Blue PTD	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.41	94.40	0.124
53	K-3	7.816	0.683	44.7	Blue PTD	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.41	93.87	0.138
54	K-4	7.816	0.683	44.7	Blue PTD	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.41	92.97	0.129
55	K-5	7.816	0.683	44.7	Blue PTD	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	92.42	60.41	90.63	0.129
56	L-1	7.816	0.683	44.7	Blue PTD	2.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	92.40	60.38	91.87	0.123
57	L-2	7.816	0.683	44.7	Blue PTD	2.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	92.40	60.38	92.43	0.128
58	L-3	7.816	0.683	44.7	Blue PTD	2.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	92.40	60.38	89.97	0.130
59	L-4	7.816	0.683	44.7	Blue PTD	2.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	92.40	60.38	90.87	0.143
60	L-5	7.816	0.683	44.7	Blue PTD	2.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	92.40	60.38	90.30	0.136

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EXHIBIT D

Test Results

Absorbent Products Pilot Line - Trial # 81

51	M-1	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.21	61.00	93.03	0.150
62	M-2	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.21	61.00	93.60	0.148
63	M-3	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.21	61.00	94.10	0.162
64	M-4	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.21	61.00	90.87	0.150
65	M-5	7.816	0.683	44.7	None	0.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.21	61.00	92.67	0.143
66	N-1	7.816	0.683	44.7	None	0.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.21	60.69	93.97	0.168
67	N-2	7.816	0.683	44.7	None	0.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.21	60.69	92.50	0.148
68	N-3	7.816	0.683	44.7	None	0.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.21	60.69	95.40	0.143
69	N-4	7.816	0.683	44.7	None	0.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.21	60.69	90.27	0.137
70	N-5	7.816	0.683	44.7	None	0.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.21	60.69	94.37	0.157
71	O-1	7.816	0.683	44.7	None	0.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.31	59.69	93.50	0.151
72	O-2	7.816	0.683	44.7	None	0.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.31	59.69	93.60	0.155
73	O-3	7.816	0.683	44.7	None	0.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.31	59.69	93.80	0.158
74	O-4	7.816	0.683	44.7	None	0.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.31	59.69	94.93	0.137
75	O-5	7.816	0.683	44.7	None	0.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.31	59.69	93.57	0.143
76	P-1	7.816	0.683	44.7	None	0.0	2.0	6.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.68	94.93	0.148
77	P-2	7.816	0.683	44.7	None	0.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.68	93.50	0.157
78	P-3	7.816	0.683	44.7	None	0.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.68	95.18	0.152
79	P-4	7.816	0.683	44.7	None	0.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.68	93.63	0.158
80	P-5	7.816	0.683	44.7	None	0.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.68	92.77	0.141
81	Q-1	7.816	0.683	44.7	Blue NLF	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.29	91.07	0.140
82	Q-2	7.816	0.683	44.7	Blue NLF	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.29	91.50	0.148
83	Q-3	7.816	0.683	44.7	Blue NLF	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.29	91.33	0.138
84	Q-4	7.816	0.683	44.7	Blue NLF	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.29	90.00	0.138
85	Q-5	7.816	0.683	44.7	Blue NLF	1.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.31	60.29	92.17	0.135
86	R-1	7.816	0.683	44.7	Blue NLF	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.06	94.20	0.138
87	R-2	7.816	0.683	44.7	Blue NLF	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.06	93.23	0.160
88	R-3	7.816	0.683	44.7	Blue NLF	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.06	92.93	0.138
89	R-4	7.816	0.683	44.7	Blue NLF	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.06	92.43	0.137
90	R-5	7.816	0.683	44.7	Blue NLF	1.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.76	93.10	0.153
91	S-1	7.816	0.683	44.7	Blue NLF	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.76	96.27	0.148
92	S-2	7.816	0.683	44.7	Blue NLF	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.76	94.37	0.155
93	S-3	7.816	0.683	44.7	Blue NLF	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.76	93.03	0.140
94	S-4	7.816	0.683	44.7	Blue NLF	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.76	95.53	0.158
95	S-5	7.816	0.683	44.7	Blue NLF	1.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.76	92.17	0.146
96	T-1	7.816	0.683	44.7	Blue NLF	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.51	92.60	0.160
97	T-2	7.816	0.683	44.7	Blue NLF	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.51	93.00	0.148
98	T-3	7.816	0.683	44.7	Blue NLF	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.51	92.03	0.152
99	T-4	7.816	0.683	44.7	Blue NLF	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.19	60.51	92.47	0.148
100	T-5	7.816	0.683	44.7	Blue NLF	1.0	2.0	5.0	CF416	4	60	16493	0.095	60	360	5	91.19	59.76	92.17	0.146
101	U-1	7.816	0.683	44.7	Blue NLF	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.76	94.80	0.140
102	U-2	7.816	0.683	44.7	Blue NLF	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.76	93.57	0.135
103	U-3	7.816	0.683	44.7	Blue NLF	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.76	92.27	0.137
104	U-4	7.816	0.683	44.7	Blue NLF	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.76	93.77	0.160
105	U-5	7.816	0.683	44.7	Blue NLF	2.0	0.0	0.0	CF416	4	60	16493	0.095	60	360	5	91.44	60.33	92.50	0.160
106	V-1	7.816	0.683	44.7	Blue NLF	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.44	60.33	94.43	0.150
107	V-2	7.816	0.683	44.7	Blue NLF	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.44	60.33	94.37	0.162
108	V-3	7.816	0.683	44.7	Blue NLF	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.44	60.33	95.67	0.148
109	V-4	7.816	0.683	44.7	Blue NLF	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.44	60.33	93.83	0.146
110	V-5	7.816	0.683	44.7	Blue NLF	2.0	2.0	1.0	CF416	4	60	16493	0.095	60	360	5	91.44	60.33	94.43	0.169
111	W-1	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	98.13	0.163
112	W-2	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	93.13	0.179
113	W-3	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	91.23	0.194
114	W-4	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	95.50	0.154
115	W-5	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	96.57	0.145
116	X-1	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	98.13	0.163
117	X-2	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	93.13	0.194
118	X-3	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	91.33	0.194
119	X-4	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	87.57	0.189
120	X-5	7.816	0.683	44.7	Blue NLF	2.0	2.0	2.0	CF416	4	60	16493	0.095	60	360	5	91.44	59.99	98.13	0.163

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EXHIBIT E

Absorbent Product

1	A-1	76.06	94.05	-1.42	9.70	95.38	-1.38	9.93	78.37	94.78	-1.54	8.94	95.93	-1.49	9.09
2	A-2	74.98	93.88	-1.47	10.29	95.22	-1.43	10.58	77.56	94.65	-1.55	9.28	95.83	-1.50	9.46
3	A-3	76.33	94.26	-1.39	9.76	95.51	-1.35	9.99	79.28	94.93	-1.49	8.44	96.06	-1.44	8.56
4	A-4	76.27	94.14	-1.48	9.67	95.42	-1.43	9.90	78.87	94.92	-1.44	8.70	96.04	-1.39	8.84
5	A-5	76.11	94.05	-1.29	9.63	95.38	-1.28	9.86	77.39	94.56	-1.51	9.34	95.75	-1.48	9.52
6	B-1	80.22	95.82	-1.87	8.68	96.58	-1.81	8.79	82.63	95.74	-1.54	8.99	96.68	-1.48	7.00
7	B-2	80.59	95.59	-1.81	8.38	96.56	-1.75	8.44	83.02	95.98	-1.57	7.03	96.87	-1.51	7.04
8	B-3	80.69	95.69	-1.88	8.25	96.65	-1.80	8.33	82.94	95.88	-1.49	8.98	96.70	-1.43	8.96
9	B-4	80.42	95.56	-1.82	8.42	96.53	-1.88	8.51	82.59	95.95	-1.58	7.32	96.85	-1.53	7.35
10	B-5	79.48	95.27	-1.92	8.75	96.32	-1.88	8.87	82.35	95.74	-1.58	7.21	96.68	-1.53	7.23
11	C-1	81.43	95.74	-1.57	7.98	96.68	-1.60	8.01	83.59	95.99	-1.68	6.44	96.88	-1.62	8.44
12	C-2	81.57	95.88	-1.83	8.00	96.79	-1.88	8.06	84.62	96.32	-1.68	6.31	97.14	-1.60	8.29
13	C-3	80.30	95.74	-2.05	8.76	96.68	-1.98	8.88	83.18	96.12	-1.73	7.13	96.98	-1.67	7.14
14	C-4	80.72	95.81	-2.04	8.57	96.73	-1.98	8.68	84.34	96.15	-1.54	6.29	97.01	-1.49	8.27
15	C-5	80.91	95.84	-1.81	8.19	96.60	-1.85	8.27	83.68	95.99	-1.69	6.59	96.88	-1.63	8.58
16	D-1	82.69	96.15	-1.88	7.35	97.00	-1.79	7.38	86.50	96.66	-1.40	6.28	97.32	-1.35	6.19
17	D-2	81.87	95.88	-2.00	7.72	96.79	-1.93	7.77	86.76	96.80	-1.40	5.12	97.30	-1.34	5.08
18	D-3	81.83	95.88	-2.08	7.80	96.78	-2.01	7.88	86.18	96.53	-1.49	5.47	97.30	-1.43	5.43
19	D-4	83.21	96.18	-1.78	7.14	97.01	-1.72	7.15	86.79	96.55	-1.34	5.02	97.31	-1.29	4.96
20	D-5	82.29	96.07	-1.89	7.73	96.94	-1.91	7.78	86.23	96.40	-1.47	5.21	97.20	-1.42	5.18
21	E-1	75.88	93.10	-1.77	8.78	94.60	-1.73	8.98	78.70	93.55	-1.62	6.98	94.96	-1.48	7.07
22	E-2	75.07	92.94	-1.78	9.02	94.47	-1.74	9.25	77.98	93.58	-1.81	7.68	94.88	-1.78	7.79
23	E-3	76.79	93.01	-1.82	7.79	94.83	-1.88	7.93	80.38	93.81	-1.59	8.17	96.18	-1.54	8.20
24	E-4	74.71	92.53	-1.85	8.71	94.14	-1.81	8.83	77.03	93.34	-1.59	7.81	94.79	-1.54	7.72
25	E-5	75.57	92.70	-1.88	8.32	94.29	-1.82	8.50	77.44	93.24	-1.68	7.62	94.71	-1.53	7.74
26	F-1	78.00	93.29	-1.88	8.41	94.75	-1.81	8.46	81.12	93.63	-1.60	6.33	95.02	-1.45	5.34
27	F-2	78.20	93.27	-1.70	7.09	94.74	-1.68	7.17	80.39	93.70	-1.63	8.02	95.07	-1.48	6.04
28	F-3	78.92	93.40	-1.78	6.71	94.84	-1.71	6.77	80.31	93.69	-1.69	8.08	95.07	-1.66	6.08
29	F-4	79.02	93.16	-1.48	6.28	94.65	-1.45	6.33	82.01	93.83	-1.86	4.91	95.18	-1.32	4.90
30	F-5	78.88	93.33	-1.72	6.82	94.78	-1.67	6.89	81.34	93.79	-1.44	5.40	95.14	-1.40	5.41
31	G-1	82.28	93.87	-1.47	4.78	95.21	-1.43	4.76	84.36	94.37	-1.24	3.90	95.81	-1.20	3.66
32	G-2	80.72	93.84	-1.84	5.98	95.19	-1.89	5.98	83.77	94.38	-1.20	4.38	95.89	-1.28	4.33
33	G-3	81.41	93.82	-1.83	5.39	95.18	-1.49	5.39	84.09	94.30	-1.25	3.99	95.88	-1.21	3.98
34	G-4	82.58	93.89	-1.83	4.97	95.23	-1.29	4.55	85.16	94.36	-1.26	3.25	95.80	-1.02	3.21
35	G-5	78.68	93.69	-1.84	6.29	95.02	-1.60	6.34	83.51	94.25	-1.33	4.22	95.51	-1.29	4.20
36	H-1	82.66	94.23	-1.48	5.08	95.50	-1.44	5.08	85.57	94.78	-1.11	3.67	95.93	-1.07	3.62
37	H-2	82.42	94.13	-1.55	5.01	95.41	-1.50	4.99	86.01	94.81	-1.09	3.28	95.95	-1.05	3.21
38	H-3	83.26	94.28	-1.48	4.82	95.53	-1.41	4.50	85.87	94.72	-1.03	3.22	95.88	-0.99	3.18
39	H-4	82.84	94.21	-1.59	4.89	95.48	-1.54	4.98	85.14	94.67	-1.28	3.70	95.84	-1.22	3.68
40	H-5	82.68	94.20	-1.59	4.95	95.47	-1.35	4.94	86.47	94.79	-0.92	2.87	95.94	-0.88	2.82
41	I-1	79.59	92.98	-1.13	5.34	94.52	-1.10	5.38	81.14	93.17	-0.97	4.67	94.65	-0.94	4.68
42	I-2	77.28	92.05	-1.28	6.16	93.77	-1.23	6.23	79.10	92.48	-1.08	5.27	94.08	-1.05	5.29
43	I-3	76.93	91.92	-1.20	6.28	93.88	-1.17	6.34	78.51	92.04	-0.98	5.16	93.76	-0.94	5.19
44	I-4	78.14	91.50	-1.19	6.31	93.33	-1.17	6.40	77.51	91.83	-1.13	5.80	93.80	-1.11	5.85
45	I-5	78.37	91.22	-1.27	6.80	93.11	-1.25	6.81	78.92	91.68	-1.16	5.80	93.46	-1.13	5.87
46	J-1	78.67	91.96	-1.28	6.01	93.71	-1.28	5.05	81.11	92.27	-0.91	3.51	93.94	-0.88	3.49
47	J-2	78.82	91.77	-1.08	4.73	93.54	-1.08	4.78	80.49	92.14	-0.94	3.83	93.84	-0.82	3.83
48	J-3	78.78	91.78	-1.10	4.58	93.55	-1.08	4.61	80.06	92.12	-1.05	4.14	93.82	-1.03	4.14
49	J-4	78.71	91.33	-1.19	5.81	93.20	-1.16	5.88	78.82	91.93	-1.07	4.99	93.67	-1.05	5.02
50	J-5	78.27	91.88	-0.98	4.36	93.63	-0.92	4.37	80.30	92.18	-0.91	3.96	93.84	-0.89	3.96
51	K-1	77.13	91.76	-1.28	5.82	93.53	-1.28	5.98	80.33	92.18	-0.81	3.60	93.87	-0.78	3.59
52	K-2	77.80	91.68	-1.29	6.24	93.48	-1.27	6.28	79.43	92.10	-1.09	4.81	93.81	-1.08	4.83
53	K-3	80.21	92.15	-1.06	4.04	93.85	-1.03	4.04	81.45	92.41	-0.93	3.43	94.06	-0.81	3.42
54	K-4	77.02	91.93	-1.46	6.26	93.07	-1.42	6.23	80.91	92.38	-1.01	3.81	94.01	-0.99	3.80
55	K-5	78.21	91.87	-1.38	5.17	93.62	-1.35	5.20	81.40	92.47	-0.95	3.59	94.09	-0.93	3.58
56	L-1	80.87	92.29	-1.08	3.67	93.98	-1.05	3.66	84.70	92.94	-0.49	1.67	94.47	-0.47	1.66
57	L-2	81.28	92.40	-0.81	3.64	94.05	-0.89	3.82	84.27	92.94	-0.58	2.02	94.45	-0.58	1.99
58	L-3	80.84	92.51	-1.17	4.03	94.13	-1.14	4.02	84.30	92.96	-0.82	2.00	94.48	-0.80	1.97
59	L-4	81.26	92.34	-1.01	3.48	94.00	-0.98	3.44	85.08	92.51	-0.85	1.18	94.37	-0.84	1.16
60	L-5	78.48	92.14	-1.37	5.37	93.84	-1.34	5.42	83.83	92.88	-0.71	2.39	94.41	-0.69	2.36

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EXHIBIT F

Absorbent Product

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APPL Trial 81 (cont.)

FLE

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EXHIBIT G

Xaw

Absorbent Product

	A-1	78.07	94.85	-1.75	9.25	95.99	-1.69	9.42	79.59	95.22	-1.55	8.56	98.28	-1.50	8.69
1	A-2	77.82	94.82	-1.70	9.29	95.80	-1.65	9.47	78.59	94.99	-1.57	9.20	98.10	-1.52	8.36
2	A-3	79.48	94.97	-1.60	8.29	96.08	-1.55	8.40	79.09	95.00	-1.58	8.64	98.10	-1.53	8.76
3	A-4	79.46	95.05	-1.61	8.47	96.14	-1.56	8.56	78.54	95.12	-1.79	9.25	98.19	-1.73	9.41
4	A-5	77.74	94.78	-1.68	9.35	95.93	-1.53	9.53	78.16	95.00	-1.84	9.38	98.10	-1.59	9.53
5	B-1	83.82	95.96	-1.61	6.43	96.87	-1.58	6.42	83.10	96.90	-1.60	6.60	98.80	-1.55	6.91
6	B-2	83.21	95.96	-1.78	6.88	96.85	-1.72	6.86	83.51	96.01	-1.69	6.71	98.89	-1.62	6.71
7	B-3	84.10	96.06	-1.68	6.32	96.92	-1.62	6.30	82.57	96.03	-1.81	7.45	98.91	-1.75	7.48
8	B-4	83.37	95.92	-1.67	6.72	96.82	-1.61	6.72	82.98	96.86	-1.86	6.97	98.80	-1.78	6.98
9	B-5	83.51	96.07	-1.68	6.76	96.84	-1.60	6.78	83.13	96.11	-1.72	7.13	96.97	-1.65	7.15
10	C-1	84.33	95.82	-1.58	5.48	96.51	-1.52	6.45	86.40	96.53	-1.83	6.28	97.30	-1.56	6.23
11	C-2	85.13	96.20	-1.75	5.76	97.05	-1.68	5.72	85.88	96.56	-1.86	5.69	97.32	-1.60	5.85
12	C-3	84.85	96.21	-1.72	6.14	97.05	-1.68	6.12	84.04	96.21	-1.86	6.66	97.05	-1.60	6.55
13	C-4	84.67	96.26	-1.74	6.17	97.05	-1.67	6.14	84.74	96.32	-1.80	6.28	97.14	-1.73	6.25
14	C-5	84.97	96.02	-1.61	5.65	96.90	-1.58	5.61	85.44	96.43	-1.81	5.84	97.22	-1.65	5.80
15	D-1	87.80	96.50	-1.38	4.36	97.28	-1.31	4.29	88.63	96.78	-1.26	3.89	97.47	-1.21	3.82
16	D-2	88.82	96.86	-1.68	5.14	97.40	-1.52	5.08	88.25	96.86	-1.38	4.34	97.56	-1.33	4.27
17	D-3	88.88	96.86	-1.60	5.11	97.39	-1.54	5.05	87.21	96.46	-1.54	4.60	97.22	-1.48	4.54
18	D-4	87.58	96.56	-1.35	4.41	97.32	-1.29	4.38	88.16	96.49	-1.34	3.91	97.26	-1.29	3.86
19	D-5	86.76	96.40	-1.54	4.84	97.20	-1.48	4.79	87.10	96.56	-1.46	4.77	97.33	-1.40	4.71
20	E-1	81.48	94.06	-1.45	6.82	95.26	-1.41	6.83	82.10	94.04	-1.34	5.12	95.35	-1.30	5.11
21	E-2	79.90	93.70	-1.68	6.38	95.08	-1.81	6.40	76.74	92.74	-1.62	6.53	95.11	-1.58	6.56
22	E-3	81.58	93.78	-1.24	4.93	95.14	-1.20	4.92	82.36	93.81	-1.16	4.58	95.16	-1.12	4.56
23	E-4	78.76	93.41	-1.62	6.84	94.85	-1.48	6.91	78.65	93.23	-1.55	6.57	94.78	-1.60	6.95
24	E-5	78.26	93.23	-1.70	6.94	94.70	-1.68	7.03	79.33	93.45	-1.58	6.44	94.69	-1.63	6.49
25	F-1	82.40	93.76	-1.35	4.66	95.13	-1.31	4.63	83.78	93.78	-1.14	3.49	95.14	-1.11	3.46
26	F-2	81.22	93.67	-1.51	5.34	95.05	-1.47	5.38	82.17	93.75	-1.33	4.60	95.12	-1.29	4.67
27	F-3	82.20	93.88	-1.38	4.86	95.22	-1.32	4.88	82.86	93.94	-1.34	4.60	95.27	-1.30	4.58
28	F-4	83.42	93.83	-1.09	3.88	95.17	-1.05	3.80	83.73	93.87	-1.08	3.86	95.21	-1.05	3.82
29	F-5	81.87	93.62	-1.28	4.62	95.01	-1.24	4.61	82.50	93.73	-1.22	4.42	95.10	-1.18	4.46
30	G-1	86.10	94.33	-0.88	2.50	95.58	-0.85	2.48	85.47	94.48	-0.93	2.38	95.67	-0.80	2.34
31	G-2	86.30	94.40	-0.82	2.44	95.68	-0.88	2.41	84.83	94.53	-0.88	2.49	95.73	-0.85	2.44
32	G-3	85.97	94.44	-0.93	2.74	95.68	-0.89	2.70	85.43	94.47	-0.94	2.45	95.89	-0.91	2.41
33	G-4	86.28	94.30	-0.84	2.29	95.68	-0.82	2.26	85.61	94.82	-0.86	2.37	95.72	-0.85	2.33
34	G-5	85.26	94.27	-1.08	3.02	95.53	-1.04	2.98	85.54	94.82	-0.88	2.42	95.72	-0.84	2.38
35	H-1	87.79	94.73	-0.47	1.69	95.89	-0.45	1.65	88.60	95.16	-0.86	1.80	95.29	-0.63	1.78
36	H-2	88.04	94.92	-0.49	1.77	96.04	-0.47	1.73	88.11	95.12	-0.82	2.04	98.20	-0.79	2.00
37	H-3	87.83	94.78	-0.61	1.87	95.93	-0.49	1.83	85.31	95.11	-0.73	1.87	98.18	-0.70	1.85
38	H-4	87.92	94.82	-0.49	1.73	95.98	-0.46	1.69	88.77	95.06	-0.81	1.44	98.14	-0.69	1.40
39	H-5	88.49	94.93	-0.42	1.63	96.04	-0.40	1.59	88.97	95.16	-0.84	1.41	98.22	-0.62	1.37
40	I-1	82.82	93.28	-0.69	3.51	94.76	-0.67	3.49	81.48	92.58	-0.68	4.02	94.44	-0.66	4.01
41	I-2	81.98	92.88	-0.73	3.68	94.27	-0.71	3.64	80.80	92.48	-0.91	4.11	94.11	-0.68	4.10
42	I-3	81.11	92.28	-0.87	3.48	93.98	-0.64	3.44	79.77	92.31	-0.98	4.55	93.98	-0.85	4.58
43	I-4	80.97	92.19	-0.84	3.45	93.68	-0.82	3.44	79.44	92.00	-0.97	4.40	92.73	-0.94	4.42
44	I-5	80.22	91.95	-0.85	3.72	93.70	-0.63	3.72	79.12	91.78	-0.87	4.29	93.58	-0.85	4.30
45	J-1	82.83	92.25	-0.39	2.07	93.93	-0.38	2.06	81.90	92.27	-0.79	2.57	93.94	-0.76	2.58
46	J-2	83.06	92.29	-0.35	1.97	93.96	-0.33	1.94	80.85	92.02	-0.83	3.47	93.74	-0.80	3.46
47	J-3	82.57	92.08	-0.65	2.74	93.75	-0.63	2.72	81.88	92.27	-0.85	3.07	93.94	-0.83	3.05
48	J-4	81.92	92.03	-0.47	2.47	93.75	-0.45	2.46	80.89	92.08	-0.77	3.88	93.79	-0.74	3.83
49	J-5	83.07	92.25	-0.26	1.87	93.93	-0.25	1.85	81.10	92.20	-0.76	3.40	93.58	-0.74	3.39
50	K-1	83.74	92.44	-0.27	1.84	94.08	-0.26	1.81	83.78	92.88	-0.45	1.81	94.17	-0.43	1.78
51	K-2	82.44	92.24	-0.81	2.38	93.92	-0.80	2.35	81.71	92.23	-0.72	2.99	93.91	-0.70	2.97
52	K-3	83.85	92.25	-0.28	1.50	93.92	-0.27	1.47	84.48	92.88	-0.43	1.71	94.41	-0.41	1.69
53	K-4	83.82	92.46	-0.29	1.49	94.08	-0.28	1.47	84.02	92.82	-0.65	2.02	94.38	-0.63	1.99
54	K-5	84.43	92.53	-0.18	1.21	94.15	-0.17	1.19	84.83	92.85	-0.43	1.41	94.40	-0.42	1.39
55	L-1	88.72	93.06	0.09	0.18	94.57	0.09	0.18	87.21	93.87	-0.27	0.71	95.00	-0.26	0.69
56	L-2	88.84	93.12	0.09	0.18	94.82	0.09	0.18	87.85	94.45	0.01	-0.16	94.88	0.02	-0.16
57	L-3	88.93	93.20	0.08	0.28	94.68	0.08	0.28	87.73	93.44	0.06	-0.07	94.67	0.06	-0.07
58	L-4	88.94	93.04	0.12	0.01	94.55	0.13	0.01	87.44	93.48	-0.03	0.22	94.91	-0.02	0.22
59	L-5	88.91	92.97	-0.12	0.71	94.50	-0.11	0.70	87.16	93.84	-0.12	0.82	94.94	-0.11	0.81

Yau

Xav.

BEST AVAILABLE COPY

To Page No. 5D

Witnessed & Understood by me,

Date

Invented by

Date _____

Recorded by

Recorded by *Kathy Welch*

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TITLE APPL Trial 81 (cont.)

EXHIBIT H

51	M-1	79.41	95.19	-1.69	8.67	96.25	-1.64	8.78	79.62	95.08	-1.43	8.35	96.17	-1.38	8.45
52	M-2	79.77	95.33	-1.69	8.57	96.38	-1.64	8.67	80.43	95.36	-1.45	8.11	96.37	-1.40	8.20
53	M-3	80.64	95.48	-1.62	8.15	96.48	-1.56	8.23	78.70	95.05	-1.57	9.00	96.44	-1.52	9.15
54	M-4	80.36	95.28	-1.77	8.05	96.32	-1.71	8.13	80.95	95.41	-1.44	7.79	96.43	-1.39	7.85
55	M-5	80.48	95.45	-1.54	8.22	96.46	-1.48	8.31	80.11	95.11	-1.40	8.01	96.19	-1.35	8.09
56	N-1	84.23	98.17	-1.62	6.43	97.02	-1.65	6.42	84.57	98.07	-1.65	6.00	98.94	-1.59	5.98
57	N-2	84.91	98.27	-1.70	6.01	97.10	-1.64	5.98	84.20	98.21	-1.70	6.50	97.05	-1.72	6.48
58	N-3	84.07	98.16	-1.77	6.00	97.01	-1.70	6.49	84.26	98.18	-1.69	6.40	97.03	-1.63	6.38
59	N-4	82.03	95.74	-2.08	7.51	98.68	-2.01	7.66	83.06	95.72	-1.75	6.89	98.67	-1.69	6.70
60	N-5	83.44	98.01	-1.63	6.79	98.89	-1.77	6.79	82.77	98.80	-1.70	7.03	98.73	-1.64	7.04
61	O-1	87.72	98.65	-1.28	4.46	97.39	-1.23	4.38	88.58	98.48	-1.63	5.10	97.26	-1.47	5.08
62	O-2	85.58	98.14	-1.73	6.54	97.00	-1.67	6.00	85.45	98.08	-1.63	6.38	98.95	-1.57	6.34
63	O-3	85.80	98.33	-1.77	5.47	97.16	-1.71	5.42	85.83	98.44	-1.49	4.82	97.22	-1.43	4.78
64	O-4	84.88	95.98	-1.08	6.65	98.88	-1.60	6.61	85.29	98.38	-1.64	6.90	97.18	-1.48	5.87
65	O-5	86.40	95.34	-1.82	5.76	97.15	-1.57	5.72	85.27	98.84	-1.73	5.88	97.16	-1.68	5.84
66	P-1	88.82	98.68	-1.27	3.68	97.43	-1.22	3.61	88.23	98.75	-1.24	3.48	97.47	-1.19	3.41
67	P-2	88.13	98.55	-1.39	4.00	97.32	-1.34	3.93	89.03	98.82	-1.21	3.70	97.53	-1.16	3.68
68	P-3	88.28	98.39	-1.24	3.68	97.19	-1.19	3.59	89.22	98.84	-1.10	3.68	97.84	-1.05	3.61
69	P-4	88.43	98.96	-1.34	4.38	97.64	-1.29	4.29	88.60	98.68	-1.28	3.91	97.42	-1.20	3.84
70	P-5	88.46	98.76	-1.40	4.08	97.48	-1.34	4.01	88.88	98.70	-1.28	3.67	97.43	-1.23	3.60
71	Q-1	83.22	95.59	-1.71	6.30	95.57	-1.68	6.29	84.16	95.37	-1.73	5.38	95.39	-1.67	5.33
72	Q-2	79.61	94.90	-1.89	8.16	98.02	-1.63	8.28	80.00	94.94	-1.78	7.94	96.06	-1.72	8.03
73	Q-3	80.62	95.06	-1.92	7.58	98.14	-1.86	7.84	80.15	94.91	-1.88	7.76	96.02	-1.82	7.84
74	Q-4	81.25	94.99	-1.54	7.00	98.00	-1.49	7.04	78.40	94.57	-1.92	8.28	96.00	-1.86	8.40
75	Q-5	81.82	95.06	-1.62	6.80	98.15	-1.47	6.83	79.47	94.57	-1.88	8.23	96.00	-1.82	8.33
76	R-1	83.94	95.48	-1.60	5.68	98.46	-1.58	5.84	82.48	95.49	-1.79	6.68	96.41	-1.73	6.70
77	R-2	84.05	95.58	-1.56	5.71	98.53	-1.51	5.69	83.00	95.56	-1.90	6.03	96.54	-1.84	6.53
78	R-3	85.46	95.57	-1.33	4.80	98.56	-1.28	4.68	84.84	95.85	-1.66	5.39	96.61	-1.81	6.36
79	R-4	84.85	98.54	-1.43	5.07	98.53	-1.38	5.04	85.00	95.77	-1.66	5.31	96.71	-1.80	5.27
80	R-5	83.68	95.48	-1.57	5.67	98.47	-1.51	5.65	83.93	95.85	-1.69	5.92	96.61	-1.63	5.90
81	S-1	85.30	95.75	-1.54	6.04	98.70	-1.48	4.99	88.51	95.88	-1.47	4.28	98.78	-1.42	4.23
82	S-2	86.06	95.92	-1.42	4.69	98.83	-1.37	4.63	88.82	96.01	-1.51	4.42	98.89	-1.48	4.38
83	S-3	86.10	96.02	-1.34	4.77	98.90	-1.28	4.72	88.27	95.96	-1.51	4.58	98.85	-1.45	4.63
84	S-4	86.06	96.08	-1.56	4.92	98.95	-1.50	4.87	88.36	98.74	-1.60	4.93	98.68	-1.54	4.89
85	S-5	84.56	95.86	-1.49	5.41	98.62	-1.43	5.37	84.80	95.82	-1.59	5.49	98.74	-1.53	5.48
86	T-1	88.50	98.31	-1.11	3.53	97.13	-1.08	3.27	89.34	98.24	-1.00	2.84	97.08	-0.98	2.88
87	T-2	88.59	98.19	-1.04	2.11	97.04	-1.00	3.05	89.12	98.30	-1.07	2.90	97.12	-1.02	2.84
88	T-3	88.76	98.42	-1.05	3.31	97.21	-1.01	3.25	88.91	98.11	-1.08	2.81	98.98	-1.03	2.75
89	T-4	89.11	98.42	-0.98	3.05	97.21	-0.93	2.99	88.80	98.40	-1.20	3.24	97.20	-1.16	3.17
90	T-5	88.32	98.32	-1.13	3.81	97.14	-1.08	3.45	88.77	98.38	-1.28	3.33	97.18	-1.23	3.28
91	U-1	81.92	94.40	-1.78	6.72	95.63	-1.73	5.73	82.01	94.56	-1.92	6.82	95.71	-1.68	5.82
92	U-2	81.53	94.80	-1.85	6.47	95.78	-1.79	6.50	80.11	94.22	-1.91	6.98	95.56	-1.85	7.03
93	U-3	80.70	94.27	-1.78	6.44	95.53	-1.73	6.47	78.06	93.81	-2.03	7.66	95.16	-1.98	7.97
94	U-4	81.19	94.34	-1.72	6.17	95.59	-1.67	6.19	80.16	94.26	-2.07	7.01	95.56	-2.01	7.08
95	U-5	81.95	94.44	-1.69	5.77	95.68	-1.64	5.77	80.30	94.30	-1.87	6.83	95.55	-1.81	6.88
96	V-1	84.82	95.16	-1.48	4.48	98.22	-1.43	4.44	84.97	95.18	-1.84	4.51	98.28	-1.58	4.47
97	V-2	84.74	95.02	-1.43	4.41	98.12	-1.38	4.37	84.80	95.06	-1.73	5.27	98.17	-1.67	5.24
98	V-3	85.43	95.12	-1.38	4.03	98.20	-1.31	3.98	85.61	95.17	-1.49	3.98	98.24	-1.44	3.93
99	V-4	84.48	94.97	-1.42	4.84	98.08	-1.38	4.51	82.73	94.88	-1.83	5.76	95.98	-1.78	5.75
100	V-5	83.79	94.93	-1.63	5.02	98.04	-1.48	5.00	82.03	94.77	-1.83	6.18	95.91	-1.77	6.17
101	W-1	88.57	95.47	-1.23	3.40	98.48	-1.18	3.34	87.48	95.84	-1.23	3.24	98.80	-1.18	3.19
102	W-2	88.03	95.40	-1.39	3.97	98.41	-1.34	3.92	88.78	95.49	-1.34	3.43	98.41	-1.20	3.37
103	W-3	88.57	95.31	-1.14	3.19	98.35	-1.10	3.14	88.20	95.42	-1.64	3.94	98.43	-1.48	3.89
104	W-4	88.66	95.42	-1.31	3.62	98.43	-1.26	3.48	88.08	95.41	-1.47	3.98	98.42	-1.42	3.91
105	W-5	85.00	95.13	-1.42	4.40	98.20	-1.37	4.38	84.19	95.16	-1.64	5.06	98.22	-1.58	5.01
106	X-1	88.16	95.79	-1.12	2.90	98.72	-1.07	2.88	88.12	98.74	-1.21	2.88	98.68	-1.16	2.83
107	X-2	88.71	98.88	-0.94	2.27	98.62	-0.90	2.22	88.17	98.73	-0.91	2.02	98.67	-0.87	1.97
108	X-3	89.01	98.80	-1.02	2.24	98.73	-0.98	2.19	88.48	98.84	-0.97	1.97	98.77	-0.93	1.92
109	X-4	89.21	98.58	-0.94	2.22	98.60	-0.92	2.17	88.20	98.61	-1.04	2.04	98.69	-0.98	1.96
110	X-5	88.79	98.93	-1.63	4.40	98.20	-1.37	4.38	84.19	95.16	-1.64	5.06	98.22	-1.58	5.01
111	Y-1	88.57	95.47	-1.23	3.40	98.48	-1.18	3.34	87.48	95.84	-1.23	3.24	98.80	-1.18	3.19
112	Y-2	88.03	95.40	-1.39	3.97	98.41	-1.34	3.92	88.78	95.49	-1.34	3.43	98.41	-1.20	3.37
113	Y-3	88.57	95.31	-1.14	3.19	98.35	-1.10	3.14	88.20	95.42	-1.64	3.94	98.43	-1.48	3.89
114	Y-4	88.66	95.42	-1.31	3.62	98.43	-1.26	3.48	88.08	95.41	-1.47	3.98	98.42	-1.42	3.91
115	Y-5	85.00	95.13	-1.42	4.40	98.20	-1.37	4.38	84.19	95.16	-1.64	5.06	98.22	-1.58	5.01
116	X-1	88.16	95.79	-1.12	2.90	98.72	-1.07	2.88	88.12	98.74	-1.21	2.88	98.68	-1.16	2.83
117	X-2	88.71	98.88	-0.94	2.27	98.62	-0.90	2.22	88.17	98.73	-0.91	2.02	98.67	-0.87	1.97
118	X-3	89.01	98.80	-1.02	2.24	98.73	-0.98	2.19	88.48	98.84	-0.97	1.97	98.77	-0.93	1.92
119	X-4	89.21	98.58	-0.94	2.22	98.60	-0.92	2.17	88.20	98.61	-1.04	2.04	98.69	-0.98	1.96
120	X-5	88.79	98.93	-1.63	4.40	98.20	-1.37	4.38	84.19	95.16	-1.64	5.06	98.22	-1.58	5.01

% Consistency Results - Pulp Feed

Absorbent Products Pilot Line - Trial #81

Operator: Kathy

Date: 4/10/08

PF-11	10.28	11.07	92.86	8.47	10.21	92.75	8.48	9.12	92.76	92.79	92.55
PF-1t	10.35	11.24	92.08	8.69	10.48	92.48	9.20	9.86	92.37	92.30	
PF - 2i	10.52	11.40	92.28	9.07	9.81	92.48	9.33	10.09	92.47	92.40	92.34
PF - 2t	11.67	12.65	92.25	9.48	10.24	92.38	10.19	11.05	92.22	92.26	
PF - 3i	10.25	11.11	92.25	9.34	10.13	92.20	9.34	10.11	92.38	92.28	
PF - 3t	9.91	10.68	91.08	10.34	11.35	91.10	9.70	10.64	91.17	91.12	91.70
PF - 4i	9.71	10.56	91.95	8.47	10.30	91.94	9.79	10.63	92.10	92.00	
PF - 4t	8.19	8.84	92.65	8.57	9.24	92.75	8.02	8.81	93.15	92.85	92.42
PF - 5i (Day 1)	9.84	10.67	92.22	8.81	9.55	92.25	9.20	9.96	92.37	92.28	
PF - 5t (Day 1)	9.50	10.27	92.50	10.02	10.83	92.52	9.20	9.94	92.56	92.53	92.40
PF - 5i (Day 2)	9.46	10.42	90.79	8.89	9.79	90.81	8.91	9.81	90.83	90.81	
PF - 5t (Day 2)	9.43	10.30	91.55	9.99	10.90	91.65	8.90	9.71	91.66	91.62	
PF - 6i	9.02	9.84	91.67	9.00	9.80	91.84	8.81	9.59	91.87	91.79	
PF - 6t	8.88	9.78	90.78	8.58	9.45	90.79	9.32	10.25	90.83	90.83	91.31
PF - 7i	9.68	10.64	90.88	9.23	10.15	90.94	9.64	10.63	90.69	90.87	
PF - 7t	10.23	11.20	91.34	9.05	9.88	91.60	9.69	10.47	91.60	91.51	
PF - 8i	8.62	9.43	91.41	8.91	9.74	91.48	9.99	10.90	91.65	91.51	
PF - 8t	9.23	10.10	91.39	9.14	9.99	91.49	9.67	10.60	91.23	91.37	91.44
PF - 9i	9.68	10.82	91.15	8.99	9.84	91.36	8.78	9.81	91.38	91.29	
PF - 9t	10.14	10.99	92.27	9.32	10.08	92.48	9.89	10.74	92.22	91.55	

I = lead
t = tail

Recorded by

Kathy Weld

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